

Work Order ID 111814

Wednesday, January 22, 2014 3:19:19 PM

111814

BFK

Page 1

Item ID: PB67-43001-03 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Blade Fold Assembly
 Start Date: 1/22/2014 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 2/10/2014 Req'd Qty: 2.00 ***2*** Customer:
 Reference:

Approvals: Process Plan: MF Date: 14-1-22 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
B67-43001-03	Rev C								
100	Small Fab	0.00							
100									
Small Fab	Memo	0.00							
Small Fab	1- Assemble as per dwg and use 242 threadlock A/B shown on dwg PB67-43001 page 2. 242 THREADLOCK batch: <u>125715</u>								
110	QC5- Inspect part completeness to step on W/O	0.00							
110									
QC	Memo	0.00							
Quality Control									
120	Identify as per dwg & Stock Location: _____	0.00							
120									
Packaging	Memo	0.00							
Packaging									

2 14-02-19

DAS
27
9-89
14/2/10

DAS
6
9-89
14-2-21

DQA:

Date: 14/2/28

QA Closed: ~~OK~~

Date: 14/2-21

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

Work Order: <u>11181Y</u> Part No. <u>PB67-43001-03</u> NCR No. <u>14-3546</u>	DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☒</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☒	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☒	Composite ☐	Supplier ☐																

Root Cause		Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design		14.02.18	100	1	elongated hole trying To straighten support on outer tube	 14.02.18	rewelded hole ground and re paint Alum. Rod # <u>125 127</u>	 14.02.18	DAS 27 9-89 14/2/20	DAS 27 9-89 14/2/20
Doc/Data										
Equip/Tooling										
Handling/Pre										
Material										
Operator	☒									
Offset/Setup										
Process	☒									
Supplier										
Training										
Transport										
Unapproved										

FAULT CATEGORY

Landing Gear	General	Other
☐ Bending	☐ Bend	☐ Folio/Program
☐ Centre Not Concentric	☐ BOM/Route	☐ Grain
☐ Cracks	☐ Broken/Damage/Defect	☐ Hardware
☐ Crimp/Kink/Ripple/Wave	☐ Burrs	☐ Inspection Incomplete/Unqualified
☐ Cuffs	☐ Contamination	☐ Instructions Incomplete/Unclear
☐ Crushing	☐ Countersink	☐ Misaligned/off center
☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled
☐ Inspection Strip in Tube	☐ Drawing	☐ Misread
☐ Marks/Chatter	☐ Drill Holes	☐ Off-set
☐ Turning Sequence	☐ Finish	☐ Out of Calibration
☐ Wave/Twist in Tube	☐ Fit/Function	☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Work Order ID 111814

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Page 2

Item ID: PB67-43001-03

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Aft Blade Fold Assembly

Start Date: 1/22/2014 Start Qty: 2.00

2

Cust Item ID:

Required Date: 2/10/2014 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	QC21- Final Inspection - Work Order Release	0.00							
130									
QC	Memo	0.00							
Quality Control									

ML5 14-02-21

mk
14-2-18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 1

Work Order ID: 111814

Parent Item: PB67-43001-03

Parent Item Name: Aft Blade Fold Assembly

Start Date: 1/22/2014

Required Date: 2/10/2014

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A 08-07-30 new issue DD verified by:ec
 IPP Rev:B 08-12-04 up date part list DD Verified by:ec IPP Rev C 10.09.24 as per Rev
 C dwg EC verified by:DD IPP Rev:D 10.10.21 added NAS1149F0532P DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
240-107 SPRING SLOTTED PIN		Purchased	No			100	Each	214.0000	8	16	DAS 33		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			9-89		
				ST382		214							
				124060		14							
				M127995		200				127995			
30345T21 LANYARD		Purchased	No			100	Each	60.0000	1	2	DAS 33		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			9-89		
				ST379		60							
				M127979		60				127979			
30345T24 LANYARDS		Purchased	No			100	Each	61.0000	3	6	DAS 33		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			9-89		
				ST379		1							
				120208		1							
				ST380		60							
				M127979		60				3x127979			
3408A98 DETENT BALL SPRING PLUNG		Purchased	No			100	Each	55.0000	1	2	DAS 33		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			9-89		
				ST397		55							
				115703		3							
				123478		52				123478			

14-01-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

AN4-10A	Purchased	No	100	Each	125.0000	2	4	DAS
Bolt								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST355	125	
M127070	50	
M127815	75	

127070

AN4-13A	Purchased	No	100	Each	1,506.0000	1	2	DAS
Bolt								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FG	20	
122808	20	
GA	17	
m125709	17	
ST356	12	
m126193	12	
ST515	1457	
m126193	407	
m127432	50	
m127817	1000	

126193

AN4-15A	Purchased	No	100	Each	506.0000	4	8	DAS
Bolt								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	100	
120449	100	
st357	406	
m127817	406	

127817

AN5-26A	Purchased	No	100	Each	53.0000	1	2	DAS
Bolt								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST337	53	
111424	50	
112492	3	

112492

14-01-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

AN6-11A	Purchased	No	100	Each	52.0000	2	4	DAS 33 9-89
BOLT								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST339	52	
114437	27	
M127993	25	

114437

AN6-16A	Purchased	No	100	Each	25.0000	2	4	DAS 33 9-89
BOLT								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST339	25	
111636	5	
m126474	20	

111636

AN8-13A	Purchased	No	100	Each	51.0000	2	4	DAS 33 9-89
Bolt								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST341	51	
123482	26	
M127993	25	

123482

BSP43	Purchased	No	100	Each	78.0000	3	6	DAS 33 9-89
RIVET								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST282	78	
M127380	78	

127380

CR3213-4-05	Purchased	No	100	Each	522.0000	1	2	DAS 33 9-89
RIVET								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST328	422	
123301	222	
m127376	200	
ST553	100	
m127255	100	

123301

D3440-1	Manufactured	No	100	Each	0.0000	1	2	DAS 33 9-89
Tube Guide (Supersedes B67-43001-25/-307)								

B111112 = 2

14-02-19

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Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____ _____ _____
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Picklist Print

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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

D3440-3	Manufactured	No	100	Each	10.0000	1	2	DAS 32 9-89
Clamp (Supersedes B67-43001-309)								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	10	
104813	10	

104813

D3444-1	Manufactured	No	100	Each	9.0000	1	2	DAS 32 9-89
Velcro Loop Belt								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	9	
104814	9	

104814

D3447-9	Manufactured	No	100	Each	2.0000	2	4	DAS 32 9-89
Swing Arm								

110604

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	2	
103843	2	

D3449-1	Manufactured	No	100	Each	3.0000	1	2	DAS 32 9-89
Pad								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	3	
92257	3	

92257

D3451-043	Manufactured	No	100	Each	1.0000	1	2	DAS 32 9-89
Handle And Lock-Down Assembly								

111744

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	1	
104660	1	

D3451-045	Manufactured	No	100	Each	1.0000	1	2	DAS 32 9-89
Handle And Lock-Down Assembly								

111745

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	1	
104535	1	

4-01-24

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

D3922-1	Manufactured	No	Each	13.0000	2	DAS
Clip					<u>33</u>	9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>	
			ST072	13		
			66852	13		
					<u>66852</u>	
	Purchased	No	Each	23.0000	2	DAS
					<u>33</u>	9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>	
			ST332	23		
			m126872	13		
			m127376	10		
					<u>126872</u>	
	Purchased	No	100	Each	54.0000	3 6 DAS
					<u>33</u>	9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>	
			FG	1		
			123482	1		
			ST332	53		
			m126872	3		
			m127255	10		
			m127993	40		
					<u>127255</u>	
	Purchased	No	100	Each	4,331.0000	9 18 DAS
					<u>33</u>	9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>	
			GA	68		
			m126333	68		
			ST509	4000		
			m127255	2000		
			m127813	2000		
			ST518	263		
			m127376	263		
					<u>127376</u>	

MS17984-C408 = 22
PIN, QUICK RELEASE
MS17984-C410 14.02.18

MS17984-C418
PIN, QUICK RELEASE

MS21042L4
Locknut

14-01-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

MS21042L5	Purchased	No	100	Each	1,095.0000	1	2	DAS 33 9-89
Nut								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	5	
117611	5	
ST314	90	
125535	90	
ST509	1000	
m127304	500	
m127813	500	

125535

MS21042L6	Purchased	No	100	Each	434.0000	4	8	DAS 33 9-89
Nut								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST314	434	
120308	4	
m127304	80	
m127831	100	
m127904	250	

127304

MS24694-S109
Screw, Flat Head

MS24694-S109	Purchased	No	100	Each	40.0000	2	4	DAS 32 9-89
Screw, Flat Head								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz	40	
115708	40	

MS27039-1-07	Purchased	No	100	Each	637.0000	1	2	DAS 33 9-89
Screw								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	139	
125654	139	
ST305	498	
m127813	498	

127813

14-01-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

MS27039-1-23 SCREW	Purchased	No	100	Each	20.0000	1	2	DAS 33 9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST306	20				
			18057	20		18057		
MS51859-6 WASHER	Purchased	No	100	Each	137.0000	8	16	DAS 33 9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST290	137				
			123482	87		123482		
			m126474	50				
MS51859-7 Washer	Purchased	No	100	Each	123.0000	2	4	DAS 33 9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST290	123				
			123482	18				
			123525	5				
			M127993	100		127993		
MS51859-8 Washer	Purchased	No	100	Each	230.0000	8	16	DAS 33 9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST290	230				
			m127255	30		14X127255		
			m127993	200		2X127993		
NAS1149F0316P WASHER	Purchased	No	100	Each	134.0000	1	2	DAS 33 9-89
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST295	134				
			113237	34		113237		
			113644	100				

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0432P	Purchased	No	100	Each	1,286.0000	16	32	DAS
WASHER								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST295	778	
M121350	28	
M127813	750	
ST510a	508	
M126221	508	

126221

NAS1149F0532P	Purchased	No	100	Each	600.0000	2	4	DAS
Washer								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST295	600	
18057	600	

18057

NAS1149F0632P	Purchased	No	100	Each	269.0000	8	16	DAS
WASHER								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST295	269	
18057	269	

18057

NAS1149F0832P	Purchased	No	100	Each	222.0000	2	4	DAS
WASHER								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST295	222	
18057	222	

18057

NAS43DD3-61	Purchased	No	100	Each	10.0000	1	2	DAS
Spacer								33
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST275	10	
m127306	10	

127306

PB67-43001-09	Manufactured	No	100	Each	0.0000	1	2	DAS
Aft Blade Fold Assembly Weldment								33
								9-89

B111114 = 2

NAS1149DN632J B 126084 = 3

14-01-24
14-02-14

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

PB67-43001-13	Manufactured	No	100	Each	1.0000	1	2	DAS 32 9-89
Aft Adjustable Blade Support Assembly								

Location Loc Qty Loc Code

Mezz2	B11115 = 1	1	
	104599	1	
PB67-43001-135	Manufactured	No	100
Male Eye			

Location Loc Qty Loc Code

Mezz2	11	
	100005	11
PB67-43001-137	Manufactured	No
Locking Sleeve		

Location Loc Qty Loc Code

Mezz2	11	
	100004	8
	90904	3
PB67-43001-155	Manufactured	No
Pin		

Location Loc Qty Loc Code

Mezz2	12	
	110596	10
	43092	2
PB67-43001-17	Manufactured	No
Aft Adjustable Blade Support Assembly		

PB67-43001-21	Manufactured	No	100	Each	0.0000	1	2	14.02.18
Upper Blade Support And Cover Assembly								

PB67-43001-23	Manufactured	No	100	Each	0.0000	1	2	14.02.18
Lower Blade Support And Cover Assembly								

PB67-43001-261	Manufactured	No	100	Each	0.0000	2	14.11.02	DAS 32 9-89
Lever Arm								

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
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Training									
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Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Wednesday, January 22, 2014 3:19:18 PM

Page 10

Work Order ID: 111814

Parent Item: PB67-43001-03

Start Date: 1/22/2014

Required Date: 2/10/2014

Parent Item Name: Aft Blade Fold Assembly

Start Qty: 2.00

Required Qty: 2.00

PB67-43001-265	Manufactured	No	100	Each	57.0000	5	10	DAS 32 9-89
Deltin Bushing								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz2	57	
111103	20	
99967	37	

PB67-43001-299	Manufactured	No	100	Each	31.0000	2	4	DAS 32 9-89
Bushing								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz2	31	
99957	31	

PB67-43001-305	Manufactured	No	100	Each	10.0000	1	2	DAS 32 9-89
Bearing								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz2	10	
99956	10	

PB67-43001-37	Manufactured	No	100	Each	2.0000	1	2	DAS 32 9-89
Tube Arm Assembly								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz2	2	
108359	2	

PB67-43001-57	Manufactured	No	100	Each	0.0000	1	2	DAS 32 9-89
Stabilizer Arm								

PB67-43001-59	Manufactured	No	100	Each	0.0000	1	2	DAS 32 9-89
Adjustable Attachment Arm								

PB67-43001-63	Manufactured	No	100	Each	2.0000	1	2	DAS 32 9-89
Handle Assy								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Mezz2	2	
108381	2	

Wednesday, January 22, 2014 3:19:19 PM

Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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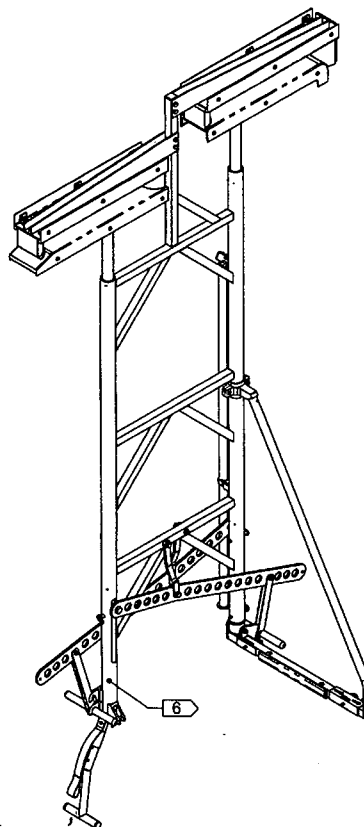
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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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ITEM	QTY -03	P/N	DESCRIPTION
	X	B67-43001-03	AFT BLADE FOLD ASSY
1	1	B67-43001-09	AFT BLADE FOLD ASSY WELDMENT
2	1	B67-43001-13	AFT ADJUSTABLE BLADE SUPPORT ASSY
3	1	B67-43001-17	AFT ADJUSTABLE BLADE SUPPORT ASSY
4	1	B67-43001-21	UPPER BLADE SUPPORT AND COVER ASSY
5	1	B67-43001-23	LOWER BLADE SUPPORT AND COVER ASSY
6	1	B67-43001-37	TUBE ARM ASSEMBLY
7	1	B67-43001-57	STABILIZER ARM
8	1	B67-43001-59	ADJUSTABLE ATTACHMENT ARM
9	1	B67-43001-63	SHORT T-HANDLE ASSEMBLY
10	1	B67-43001-135	MALE EYE
11	1	B67-43001-137	LOCKING SLEEVE
12	1	B67-43001-155	PIN
13	2	B67-43001-261	LEVER ARM
14	5	B67-43001-265	DELTRIN BUSHING
15	2	B67-43001-299	BUSHING
16	1	B67-43001-305	BEARING
17	1	D3440-1	TUBE GUIDE
18	1	D3440-3	CLAMP
19	1	D3444-1	VELCRO LOOP BELT
20	2	D3447-9	SWING ARM
21	1	D3449-1	PAD
22	1	D3451-043	HANDLE & LOCK-DOWN ASSY
23	1	D3451-045	HANDLE & LOCK-DOWN ASSY
24	1	D3922-1	CLIP
25	1	30345T21	LANYARD
26	3	30345T24	LANYARD
27	1	3408A98	DETENT BALL PLUNGER
29	2	AN4-10A	BOLT
30	1	AN4-13A	BOLT
31	4	AN4-15A	BOLT
32	1	AN5-26A	BOLT
33	2	AN6-11A	BOLT
34	2	AN6-16A	BOLT
35	2	AN8-13A	BOLT
36	3	BSP43	RIVET
37	1	CR3213-4-05	RIVET
38	8	MS171534	SPRING SLOTTED TENSION PIN (OR 240-107)
39	1	MS17984-C408	QUICK RELEASE PIN
40	3	MS17984-C418	QUICK RELEASE PIN
41	9	MS21042L4	NUT
42	1	MS21042L5	NUT
43	4	MS21042L6	NUT
44	2	MS24694-S109	SCREW
45	1	MS27039-1-07	SCREW
46	1	MS27039-1-23	SCREW
47	8	MS51859-6	NYLON WASHER
48	2	MS51859-7	NYLON WASHER
49	8	MS51859-8	NYLON WASHER

ITEM	QTY -03	P/N	DESCRIPTION
	X	B67-43001-03	AFT BLADE FOLD ASSY
50	1	NAS43DD3-61	SPACER
51	4	NAS1149DN632J	WASHER
52	1	NAS1149F0316P	WASHER
53	16	NAS1149F0432P	WASHER
54	2	NAS1149F0532P	WASHER
55	8	NAS1149F0632P	WASHER
56	2	NAS1149F0832P	WASHER



B67-43001-03 AFT BLADE FOLD ASSY

NOTES:

- 1) MATERIAL: NONE
- 2) FINISH: TOUCH UP PAINT WITH SANDFLEX GREEN.
POSSIBLE SUPPLIER BERTRAND BODY SHOP SUPPLIES
P/N DART01K
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH RED LABEL
- 7) WEIGHT: 50.57 lbs
- 8) WITH THE INNER TUBE CRADLE ASSEMBLY LOCKED IN ITS LOWEST MOST RECESSED POSITION, TRANSFER DRILL $\varnothing 0.250$ DIA HOLE FROM THE OUTER TUBE TO THE INNER TUBE AND THRU THE OUTER TUBE. DEBURR, REMOVE DEBRIS, AND TOUCH UP PAINT PER ITEM 2 AS REQUIRED. 2 PL.
- 9) INSTALL TEFLON BUSHING -265 INSIDE THE OUTER TUBE. MATCH DRILL BUSHING TO EXISTING HOLES IN OUTER TUBE USING $1/8"$ DIAMETER DRILL. INSERT MS171534 (OR 240170) SPRING SLOTTED PIN AND GRIND FLUSH WITH CONTOUR OF OUTER TUBE. 10 PL (2 PL PER BUSHING)
- 10) DRILL $\varnothing 0.250$ DIA HOLE THRU -09/-265/-305 WITH -37 AT VERTICAL FULL OPEN POSITION. DRILL ADDITIONAL HOLE WITH -37 AT FULL CLOSED POSITION, ASSURING -37 CLEARS ADJACENT STRUCTURE.
- 12) DRILL A $\varnothing 0.128$ DIA HOLE THRU -343 (COMPONENT OF -37) AND -25 (COMPONENT OF -09 ASSY). INSERT MS171534 (OR 240170) SPRING SLOTTED PIN, AND GRIND FLUSH WITH -37.
- 13) INSERT -135 INTO -243 TUBE (COMPONENT OF -09 ASSY) ALIGN HOLES, ASSURING ORIENTATION SHOWN. INSERT 3408A98 DETENT BALL, ASSURING BALL PROTRUDES SLIGHTLY ABOVE OUTER SURFACE OF -243 TUBE. LOCATE AND INSTALL AN MS171534 (OR 240170) SPRING SLOTTED PIN BY DRILLING A $\varnothing 0.128$ DIA HOLE THRU -243 AND -135. ENSURE -137 SLEEVE SLIDES FREELY OVER HINGE AND LOCKS INTO DETENT.
- 14) BOND D3449-1 TO B67-43001-09 USING CONTACT CEMENT AS PER MANUFACTURER'S SPECIFICATION.

CMF # 111814 14-1-22

RELEASED
2010-09-21
MD

C	REDRAWN PREMIER AVIATION DRAWING IAW DART QSI 018 AND QSI 043. FOR PREVIOUS REVISIONS, REFER TO SHEET 3 OF PREMIER AVIATION DRAWING No. B67-43001. REASON: SEE PAR#09-011		VS	10.06.14
REV.	DESCRIPTION		BY	DATE
DESIGN	RW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. B67-43001-03 MFG. APPR. <i>[Signature]</i> APPROVED <i>[Signature]</i> DE APPR. <i>[Signature]</i> DATE 10.06.14		
DRAWN	VS			
CHECKED	<i>[Signature]</i>			
MFG. APPR.	<i>[Signature]</i>			
APPROVED	<i>[Signature]</i>			
DE APPR.	<i>[Signature]</i>	TITLE AFT BLADE FOLD ASSY SCALE NTS		
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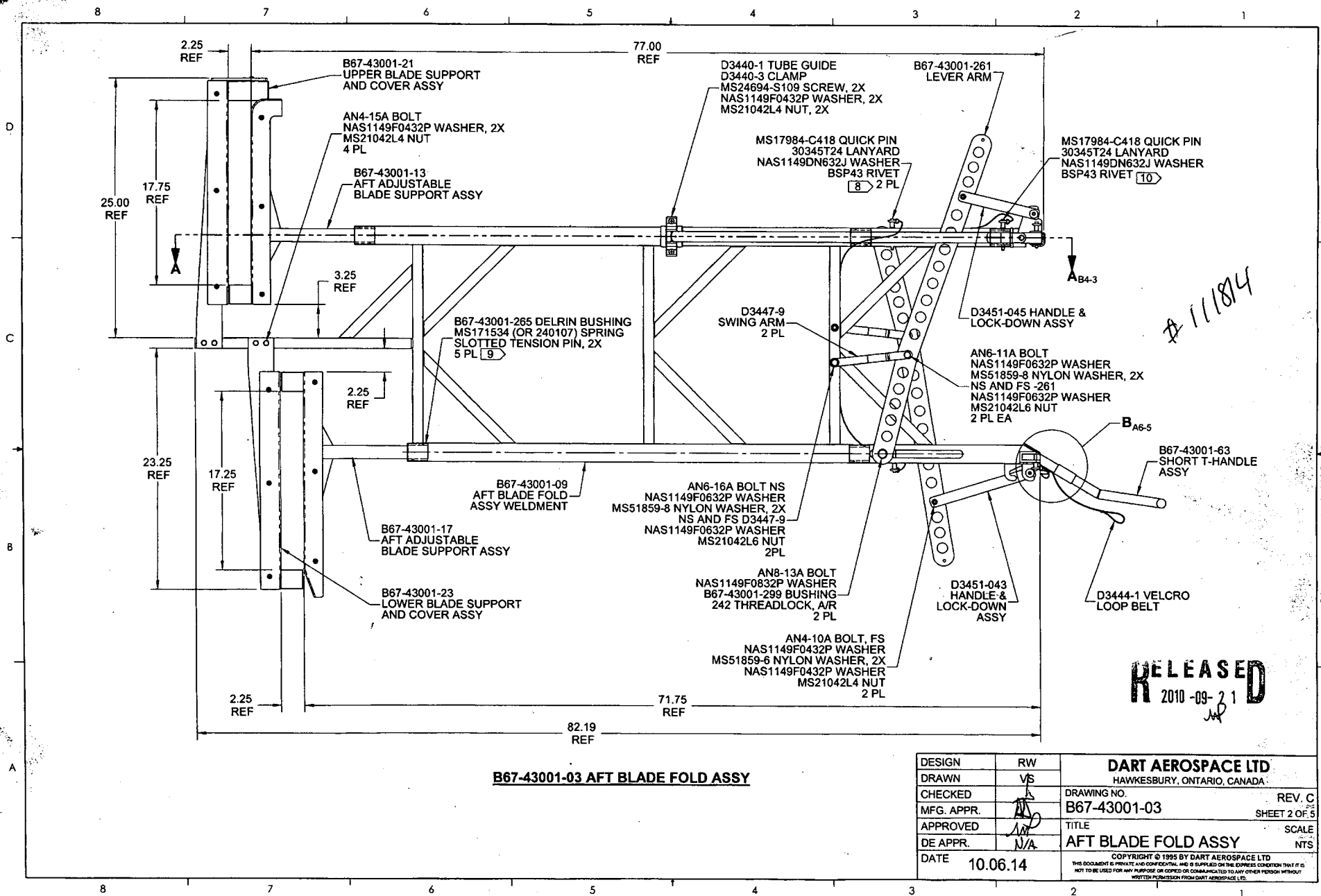
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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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DRAWN	VS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		B67-43001-03	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.	N/A	AFT BLADE FOLD ASSY	NTS
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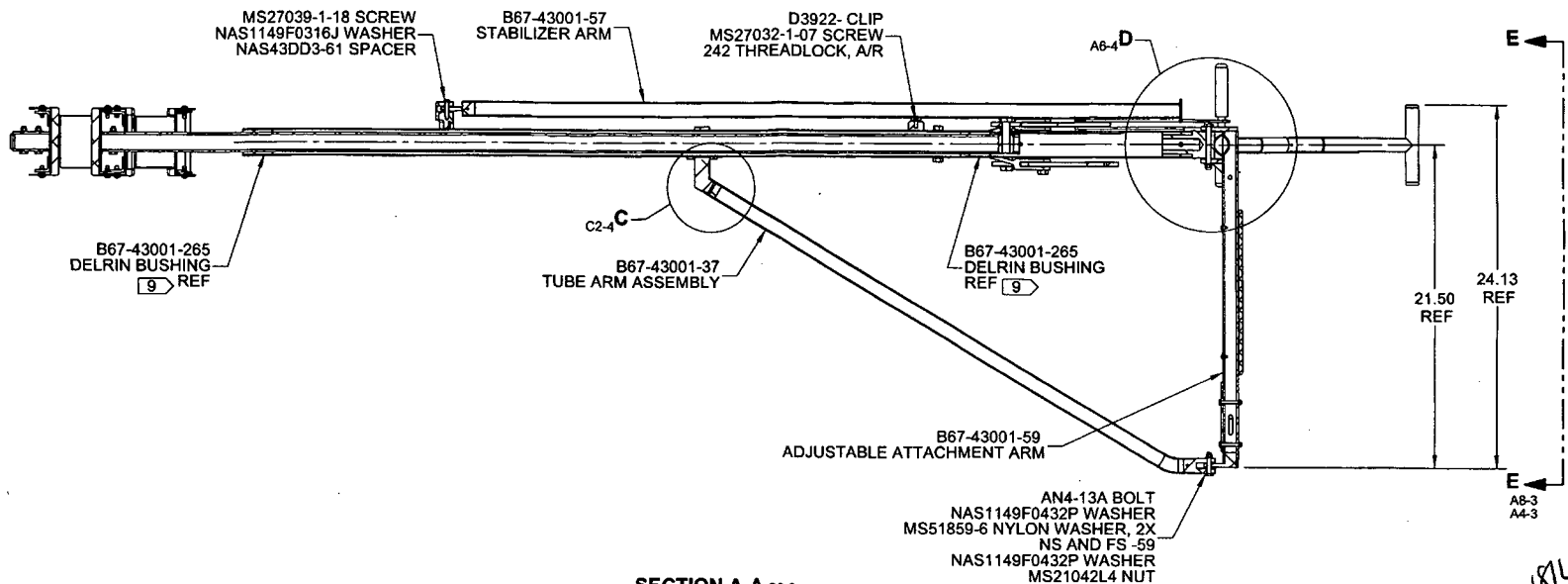
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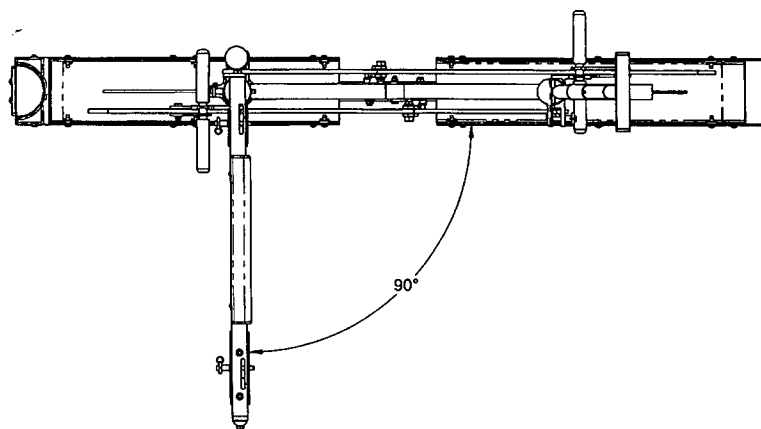
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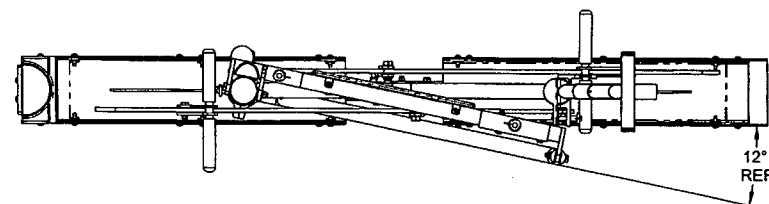
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SECTION A-A C2-2



C1-3 VIEW E-E: VERTICAL FULL OPEN OR "IN USE" POSITION 10



C1-3 VIEW E-E: FULL CLOSED OR "STORAGE" POSITION 10

RELEASED
2010-09-23

DESIGN	RW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		B67-43001-03	SHEET 3 OF 5
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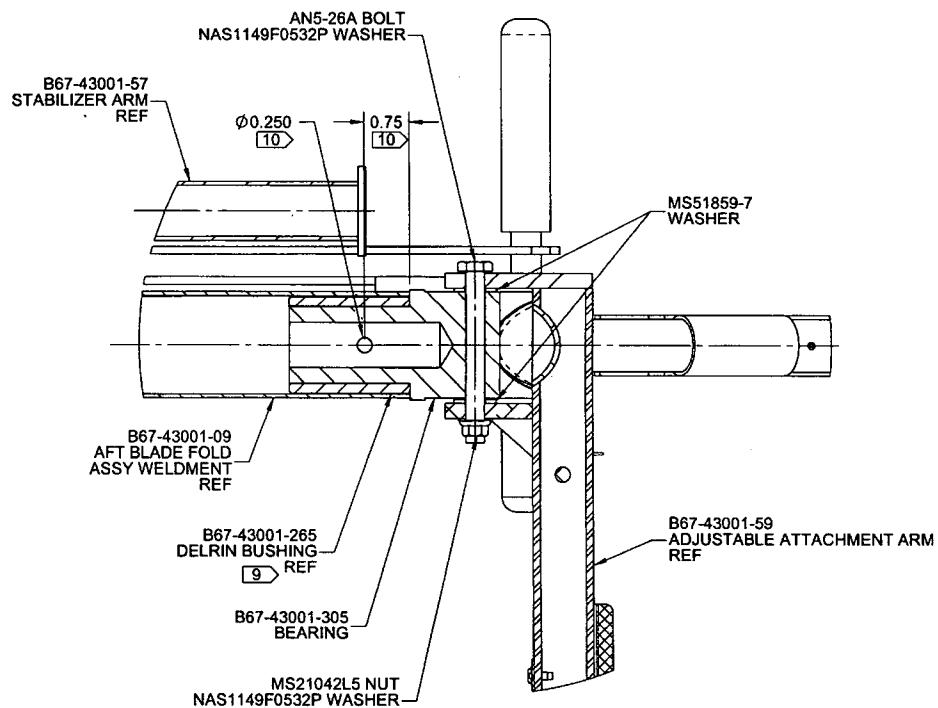
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

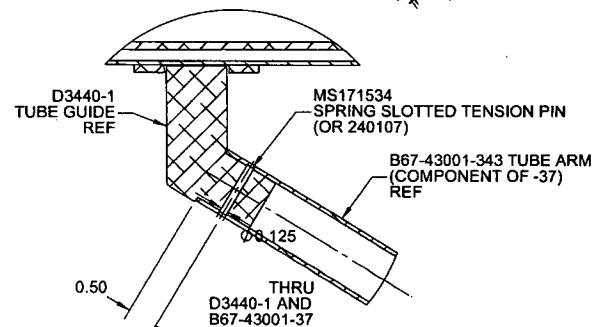
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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DETAIL D
SCALE 5X D3-3



DETAIL C
SCALE 5X D5-3

RELEASED
2010-09-21
JN

DESIGN	RW	DART AEROSPACE LTD	
DRAWN	V\$	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		B67-43001-03	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.	N/A	AFT BLADE FOLD ASSY	NTS
DATE	10.06.14	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DQA: _____ Date: _____



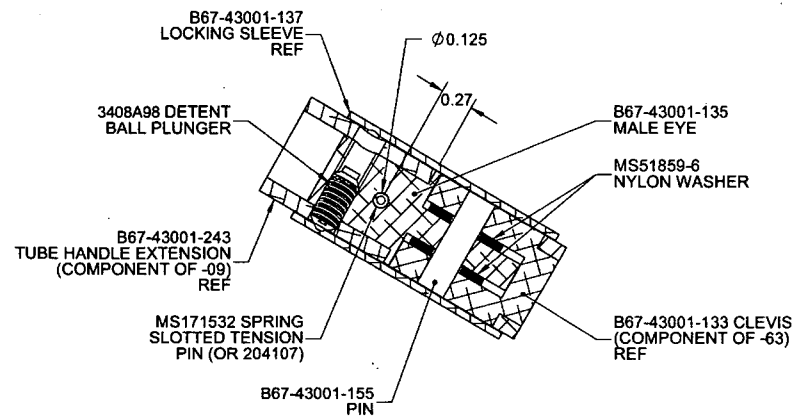
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

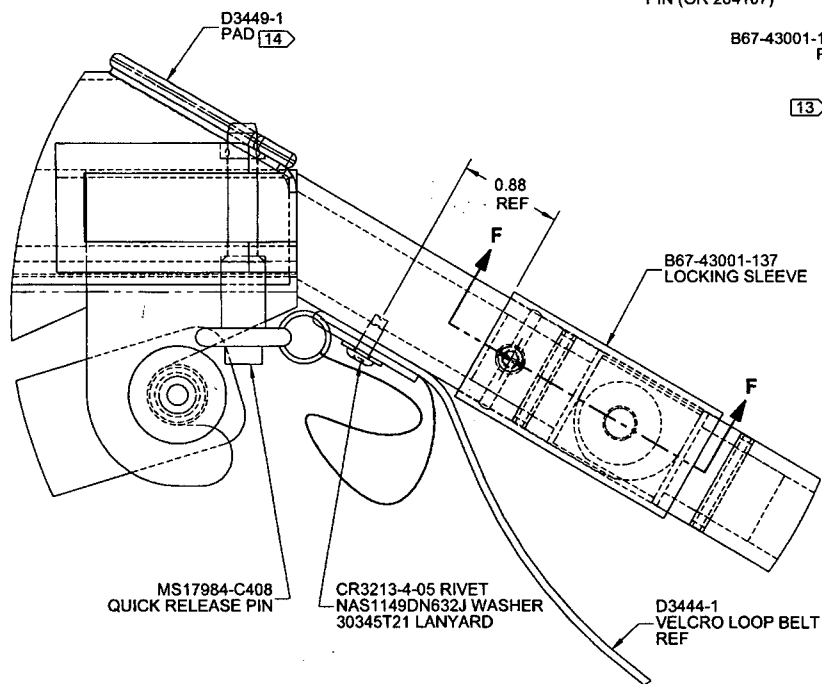
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Crosstube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Design											
Doc/Data											
Equip/Tooling											
Handling/Pre											
Material											
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Offset/Setup											
Process											
Supplier											
Training											
Transport											
Unapproved											

FAULT CATEGORY			
Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other



13 SECTION F-F B4-5



13 DETAIL B C2-2 SCALE 10X

A 111814

RELEASED
2010-09-21

DESIGN	RW	DART AEROSPACE LTD	
DRAWN	VS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	VS	DRAWING NO.	REV. C
MFG. APPR.	VS	B67-43001-03	SHEET 5 OF 5
APPROVED	VS	TITLE	SCALE
DE APPR.	N/A	AFT BLADE FOLD ASSY	NTS
DATE	10.06.14	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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